A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D305/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

	ata base consulted during the international search (name of data ba)
EPO-In	ternal, WPI Data, PAJ, BEILSTEIN Da	ta	
	·		•
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT	<u> </u>	I
Category *	Citation of document, with Indication, where appropriate, of the re	evant passages .	Relevant to claim No.
γ	US 5 808 113 A (MURRAY ET AL)		4-6
•	15 September 1998 (1998-09-15)		
	cited in the application	•	
	the whole document	•	
γ	US 5 319 112 A (KINGSTON ET AL)		4-6
	7 June 1994 (1994-06-07)	•	
	the whole document		
			4-6
Υ	COMMERCON A ET AL: "IMPROVED PR		4-0
•	AND ESTERIFICATION OF A PRECURSO TAXOTERE AND TAXOL SIDE CHAINS"	OR OF THE	
	TETRAHEDRON LETTERS, ELSEVIER SO	TENCE	
	PUBLISHERS, AMSTERDAM, NL,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	vol. 33, no. 36, 1992, pages 518	35-5188,	
	XP000650710	·	
•	ISSN: 0040-4039	•	
	page 5186, step (b)		
		-/	
		<u> </u>	
X Furt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
* Special ca	ategories of cited documents:	"T" later document published after the int or priority date and not in conflict with	ernational filing date
"A" docume	ent defining the general state of the art which is not dered to be of particular relevance	cited to understand the principle or the invention	neory underlying the
	document but published on or after the International	"X" document of particular relevance; the cannot be considered novel or cannot be considered nov	claimed invention of be considered to
"L" docriwe	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	involve an inventive step when the d	ocument is taken alone
citatio	n or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an t	nventive step when the
"O" docum	ent referring to an oral disclosure, use, exhibition or means	document is combined with one or n ments, such combination being obvi	tore other such docu-
"P" docum	ent published prior to the international filing date but han the priority date claimed	in the art. "&" document member of the same pater	t family
	actual completion of the international search	Date of mailing of the International se	arch report
1	3 July 2005	1 4. 09. 05	5
	mailing address of the ISA	Authorized officer	
urid	European Patent Office, P.B. 5818 Patentlaan 2		
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Hanisch, I	
	Fax: (+31-70) 340-3016		

Internal Application No
PCT/US2005/005953

C (Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	005/005953	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
-alogory			
Υ	PINES S H ET AL: "The Stereochemistry of 2,3-Diphenyl-1-methylpropylamine" JOURNAL OF MEDICINAL CHEMISTRY, vol. 10, no. 4, 1967, pages 725-728, XP002335874 page 726, column 1, last paragraph - column 2, paragraph 2 page 728; compounds IA-ID	4-6	
A	MURRAY C K ET AL: "An Improved Method for Separating Paclitaxel and Cephalomannine Using Ozone and Girard Reagents" JOURNAL OF ORGANIC CHEMISTRY, vol. 61, 1996, pages 9038-9040, XP002335875 page 9038	1-12	
Α	KINGSTON D G I ET AL: "An Improved Method for the Separation of Paclitaxel and Cephalomannine" JOURNAL OF NATURAL PRODUCTS, vol. 59, 1996, pages 167-168, XP002335876 the whole document	1-12	
		·	
•			
		·	
<u></u>			
	·		
:			
	·		
1			



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)
Box III Observations where unity of invention is lacking (continuation of item of initial shoot)
This International Searching Authority found multiple inventions in this International application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. Y No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-12
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

The preparation of paclitaxel and docetaxel from cephalomannine via the present primary amine taxane intermediate

2. claims: 13-17

The preparation of paclitaxel and docetaxel starting from cinnamoyl halide

3. claim: 18

The preparation of docetaxel from cephalomannine not via the primary amine taxane intermediate

imormation on patent family members

Interna Application No
PCT/US2005/005953

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5808113	15-09-1998	US 5679807 A AU 694627 B2 AU 5021096 A CA 2211799 A1 EP 0852581 A1 JP 11502516 T WO 9623780 A1	21-10-1997 23-07-1998 21-08-1996 08-08-1996 15-07-1998 02-03-1999 08-08-1996
US 5319112	A 07-06-1994	US 5470866 A	28-11-1995